

IN THE CLAIMS

Please amend the claims as indicated below. All claims now pending in the application are presented.

Claims 1 - 36 (canceled)

Claim 37. (currently amended) An arch wire, comprising:

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a ~~metal~~-wire sized to fit a maxillary arch, the ~~metal~~-wire having a radius of curvature of one of 25.4125 mm, 26.75 mm and 28.0875 mm small, medium and large, wherein said medium size radius is determined from an average sum of maxillary anterior tooth sizes of patients having an ideal occlusion and the small and large radii values are plus and minus one standard deviation from said medium value.

Claim 38. (currently amended) The arch wire according to claim 37, wherein the said arch wire is a metal wire and includes super-elastic preformed arch wires.

Claim 39. (currently amended) The arch wire according to claim ~~37~~38, wherein the metal wire has one of a round, a square, and a rectangular cross-section.

Claim 40. (currently amended) An arch wire, comprising:

a metal wire sized to fit a mandibular arch, the metal wire having a radius of curvature of one of 25.4625 mm, 24.25 mm and 23.0375 ~~25.4625~~ mm, wherein the medium value of said radii is related to an average sum of maxillary anterior tooth sizes of patients

having an ideal occlusion and the small and large values are plus and minus one standard deviation from said medium value.

Claim 41. (original) The arch wire according to claim 40, wherein the metal wire includes super-elastic preformed arch wires.

Claim 42. (original) The arch wire according to claim 40, wherein the metal wire has one of a round, a square, and a rectangular cross-section.

Claim 43. (new) The arch wire of claim 37 wherein selection of a small, medium or large maxillary arch wire determines selection of a corresponding small, medium or large mandibular arch wire.

Claim 44. (new) The arch wire of claim 37 wherein said medium arch wire radius value is derived from Bolton Analysis.

Claim 45. (new) The arch wire of claim 37 wherein said small, medium and large sizes have radii of 25.4125 mm, 26.75 mm and 28.0875 mm, respectively.